**Directions:** Answer the following questions according to each appropriate Video Quest Video (VQV) on the “Moisture, Clouds, and Precipitation” wikispace page. (Meteorology -> Moisture, Clouds, Precipitation). You do not have to write in complete sentences, but please write legibly.

1. **(VQV#1)** What was the difference between blowing on your hand with a large open mouth, and blowing on your hand with pursed lips (small opening like when you are blowing on spoonful of hot soup)? Explain.
2. **(VQV#1)** Why was Professor Hewitt able to safely put his hand into the jet of air coming out of the pot of boiling water pressure release valve?
3. **(VQV#1)** How would you describe the substance observed coming out of the pressure release valve? How does this substance form?
4. **(VQV#2)** Describe the motion of the gas particles as the volume of the container decreases (piston moving down) & increases (piston moving up). What does the change in color indicate?
5. **(VCV#3)** Describe the central idea of adiabatic processes.
6. **(VCV#3)** Generally, when do clouds form?
7. **(VCV#3)** Define and describe the DALR and SALR.
8. **(VQV#4)** How can a mountain cause clouds to form?
9. **(VQV#4)** Why does most snow/rain fall on the west faces of Wyoming Mountains?
10. **(VQV#5)** Watch the time lapse video. What appears to be happening near the peak of Mt. Temple? Sketch this as a small diagram below. Please explain this phenomenon to your friend who is terror stricken and claims that Mt. Temple is a volcano which is venting and about to erupt!!
11. **(VQV#6)** Why is it important for us to understand clouds?
12. **(VQV#6)** What is a cloud? What would you say are the general steps to form a cloud?
13. **(VQV#7)** Explain how the infinity paper airplane works?
14. **(VQV#7)** Which lifting mechanism is being demonstrated in this video?
15. **(VQV#8)** Cold air is \_\_\_\_\_\_\_\_\_\_\_ dense than warm air, thus when a cold front moves in, the warm air is forced \_\_\_\_\_\_\_\_\_\_\_.
16. **(VCV#8)** Violent weather is more commonly associated with which type of front?